Grilamid® XE 3915

Polyamide 12

EMS-GRIVORY

Message:

Grilamid® XE 3915 is a Polyamide 12 (Nylon 12) material. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America for injection molding.
Important attributes of Grilamid® XE 3915 are:
Flame Rated
RoHS Compliant
Typical applications include:
Automotive
Electrical/Electronic Applications
Appliances
Consumer Goods
Engineering/Industrial Parts

General Information				
Uses	Appliance Components			
	Automotive Applications			
	Automotive Exterior Parts			
	Connectors			
	Consumer Applications			
	Electrical/Electronic Applications			
	Engineering Parts			
	Household Goods			
	Hydraulic Applications			
	Industrial Applications			
	Medical Devices			
	Power/Other Tools			
	Sporting Goods			
RoHS Compliance	RoHS Compliant			
Forms	Granules			
Processing Method	Injection Molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.47	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.50	--	%	
Flow	0.10	--	%	
Water Absorption				ISO 62
Saturation, 23°C	0.80	--	%	
Equilibrium, 23°C, 50% RH	0.40	--	%	
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**

Shore Hardness (Shore D, 15 sec)	--	82		ISO 868
Ball Indentation Hardness	--	155	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	13000	11500	MPa	ISO 527-2
Tensile Stress (Break)	155	135	MPa	ISO 527-2
Tensile Strain (Break)	6.0	6.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	16	15	kJ/m^2	
23°C	21	20	kJ/m^2	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	80	kJ/m^2	
23°C	85	80	kJ/m^2	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
1.8 MPa, Unannealed	165	--	°C	ISO 75-2/A
8.0 MPa, Unannealed	125	--	°C	ISO 75-2/C
Continuous Use Temperature				Internal Method
-- [1]	90.0 to 120	--	°C	
-- [2]	150	--	°C	
Melting Temperature [3]	178	--	°C	ISO 11357-3
CLTE				ISO 11359-2
Flow	1.5E-5	--	cm/cm/°C	
Transverse	1.2E-4	--	cm/cm/°C	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	--	1.0E+12	ohms	IEC 60093
Volume Resistivity	--	1.0E+13	ohms·cm	IEC 60093
Electric Strength	--	35	kV/mm	IEC 60243-1
Comparative Tracking Index	--	600	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flammability Classification (0.800 mm)	HB	--		IEC 60695-11-10, -20
Additional Information	Dry	Conditioned		Test Method
ISO Type	PA12, MHR, 18-120, GF50	--		ISO 1874
NOTE				
1.	Long Term			
2.	Short Term			
3.	10°C/min			

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China